

Practice

For use with pages 85–89

Write the verbal sentence as an equation.

1. The difference of 11 and y is -9 .
2. The sum of 41 and w is 26.
3. The quotient of r and 6 is -4 .
4. The product of 18 and p is 54.

Tell whether the given value of the variable is a solution of the equation.

5. $\frac{v}{-4} = 13$; $v = -52$
6. $108 = -36z$; $z = -3$
7. $27 = n - 16$; $n = 11$
8. $84 = 78 + t$; $t = -6$

Match the equation with the corresponding question. Then solve.

9. $\frac{a}{2} = 36$
 - A. What number minus 36 equals 2?
 - B. What number divided by 2 equals 36?
 - C. 2 times what number equals 36?
 - D. 2 plus what number equals 36?
10. $2a = 36$
11. $2 + a = 36$
12. $a - 36 = 2$

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Solve the equation using mental math.

13. $12b = -108$

14. $96 = -8m$

15. $49 = 7d$

16. $\frac{w}{-3} = 21$

17. $\frac{48}{h} = -16$

18. $-8 = \frac{k}{-4}$

19. $39 - f = 15$

20. $58 = 27 - \ell$

21. $z - 41 = 63$

22. $y + 43 = 58$

23. $-19 + c = 28$

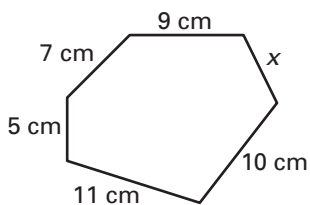
24. $g + 26 = -61$

In Exercises 25 and 26, use an equation to solve the problem.

25. While traveling a long distance, an elephant in a family walks at a rate of about 10 miles per hour. Find the approximate time it takes an elephant to travel 60 miles.

26. From 2003 to 2004, the number of students in a school declined by 140 students. In 2004, there were 530 students in the school. Find the number of students in the school in 2003.

27. The perimeter of the figure is 48 centimeters.



a. Write and simplify an equation that you can use to find x .

b. Solve your equation. What is the value of x ?